

Summaries

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Romania's Security Policy and Military-Political Relations

This article continues a series of publications focusing on security policy foundations of the states surrounding Ukraine. It looks, in particular, at the historical context, geopolitical views, military and political disputes with other states. Findings of the research in question will provide major input in collecting the initial data required for the development and validation of Ukraine's national defense policy.

Pavlo Shysholin,

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Public Administration PhD, Head of Section, Ukrainian State Border Control Service Research Institute, Colonel

On the application of specific public administration methods in relation to the integrated border control management

The article focuses on a number of relevant aspects related to the application of legal and administrative public administration methods while exercising integrated border control management. The improvements in the area of legal regulation during the holding of the football championship «Euro – 2012» in Ukraine are being illustrated in the article. The authors also put forward several proposals that should help improve international ISO 9000 quality management standards.

Olexandr Levchenko,

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Volodymyr Trots'ko,

Military Sciences PhD, Leading Scientist, Senior Research Fellow, A1906 Military Unit,

Ihor Vasylenko,

Military Sciences PhD, Leading Scientist, Senior Research Fellow, A1906 Military Unit

Assessing the level of military threat to Ukraine's national security: clarifying basic concepts

Based on the analysis of contemporary scientific approaches and building on practical experience, the authors formulate the need to clarify basic concepts as far as the evaluation of the level of military threat is concerned. The authors propose their classification of various levels of military threat to Ukraine's national security and give definitions of such notions, as «risk», «challenge», and the «threat of military force».

Vasyl Telelym,

Dr. of Military Sciences, Professor, Commandant of the Ivan Chernyakhovskiy Ukrainian National Defense University, Lieutenant General,

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Military Sciences PhD, Professor, Head of Intelligence Chair, Ivan Chernyakhovskiy Ukrainian National Defense University, Colonel,

Yu. Punda,

Military Sciences PhD, Senior Researcher, Dr. of Sciences Candidate, National Defense and Security Strategy Chair, Ivan Chernyakhovskiy Ukrainian National Defense University, Colonel

The modular approach in forming combined task forces: challenges and possible solutions

The article examines ways of applying «modular approach» while forming combined task forces. It also identifies key challenges associated with the application of «modular principle», while proposing potential remedies. The article lays out just some basic mathematical tools necessary to calculate the required number of modules as part of a combined task force, while specific examples as to how to apply «modular approach» in practice will be illustrated in the next issue of the Journal.

V. Savyts'kyi,

Dr. of Medicine, Professor, Commandant of the Ukrainian Academy of Military Medicine,

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Dr. of Medicine, Professor, Deputy Commandant in charge of scientific activity, Ukrainian Academy of Military Medicine – Head of the Ukrainian Military Medicine Research Institute, Academy of Military Medicine,

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O. Bulakh,

Medical Sciences PhD, Senior Research Fellow, Leading Scientist at the Medical Support Research Division, Ukrainian Military Medicine Research Institute under the Ukrainian Academy of Military Medicine

Medical support for the Armed Forces of Ukraine as part of the nation-wide healthcare system

The article explains the need to develop an efficient system of medical support able to operate both in peacetime and during hostilities in case of a low-intensity conflict without requiring extra assets to remain operational. The authors discuss the main prerequisites to build a modern healthcare system for the national Armed Forces in peacetime and in case of crises through the endorsement of an adequate legislative base regulating its functioning as part of the nation-wide healthcare system.

Ivan Rusnak,

Dr. of Military Sciences, Professor, Deputy Minister of Defense of Ukraine,

Volodymyr Khyzhnyak,

Technical Sciences PhD, Senior Researcher, Head of Aviation Science and Research Center, Ukrainian Science and Research Institute for Civil Protection,

V. Yemets,

Head of Aviation Development and Application Section, Aviation Science and Research Center, Ukrainian Science and Research Institute for Civil Protection

The use of unmanned aircraft in civil protection: current situation and prospects of development and application in Ukraine

Ukraine needs to address a number of technical, legal and organizational issues in order to proceed with the development and application of unmanned aerial vehicles (UAVs) in the area of civil protection. There are a number of hurdles, which need to be eliminated in order to open the way for the use of UAVs in civil protection. The authors express their views with regard to the current situation and put forward proposals as to how to remove the existing barriers.

S. Pashchenko,

Technical Sciences PhD, Senior Researcher, Deputy Head for scientific activity of the National Aviation Research Institute, Colonel,

O. Mavrenkov,

Technical Sciences PhD, Senior Researcher, Dr. of Sciences Candidate at the National Aviation Research Institute, Colonel

Risk management system in the framework of aviation equipment modernization for the Armed Forces of Ukraine

The article presents findings of a research study for the concept development in support of the implementation of programs (plans) aimed at modernization of the national Air Force equipment and aviation technology, while assessing potential risks and proposing a risk management system. The paper focuses in particular on analyzing risks, which may be associated with the procurement of foreign-made samples of equipment and aviation technology for the Ukrainian Air Force.

Hennadiy Pevtsov,

Dr. of Technical Sciences, Professor, Deputy Commandant of the Kharkiv Ivan Kozhedub Air Force University for scientific activity,

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Yuriy Trofymenko,

Research Fellow at the Science and Research Center of the Kharkiv Ivan Kozhedub Air Force University

Theoretical foundations for the newest radar systems

The authors examine options of the «energy theory» for radio signal detection and classification parameters, which have been developed taking account of the law of conservation of energy and Bayesian unconstrained optimization of statistical solutions. Energy detection of radio signals consists in searching an interval of time where the signal's and noise's overall energy with respect to the internal noise's average energy exceed the established detection threshold based on specific quality parameters.